

Claims

- 1 1. A fan duct assembly comprising:
 - 2 a fan duct having first and second flanges extending outwardly from an
 - 3 opening thereof;
 - 4 a panel having at least one catch for engaging with the first flange of the
 - 5 fan duct; and
 - 6 a locking plate attached to the panel opposite to the at least one catch, the
 - 7 locking plate comprising a base and a vertical portion extending from the
 - 8 base, a resilient tab being formed from the vertical portion for pressing
 - 9 the second flange of the fan duct and thereby absorbing vibration.
- 1 2. The fan duct assembly as described in claim 1, wherein at least one rib is
 - 2 formed on the first flange of the fan duct, and each catch of the panel abuts
 - 3 against one corresponding rib and a top surface of the flange to retain one
 - 4 side of the fan duct.
- 1 3. The fan duct assembly as described in claim 1, wherein the tab of the
 - 2 locking plate is generally L-shaped, with a top end integrally connecting
 - 3 with the vertical portion of the locking plate and a bottom portion bent
 - 4 slightly toward the fan duct.
- 1 4. The fan duct assembly as described in claim 1, wherein a handle extends
 - 2 upwardly from a bottom end of the tab of the locking plate.
- 1 5. The fan duct assembly as described in claim 1, wherein at least one resilient
 - 2 foot respectively extends from opposite sides of the base of the locking
 - 3 plate toward the fan duct, and wherein a free end portion of each foot is
 - 4 bent slightly upwardly to press against the second flange of the fan duct.

1 6. The fan duct assembly as described in claim 1, wherein a stepped fixing
2 portion depends from an edge of the base of the locking plate, to extend
3 through an opening defined in the panel.

1 7. The fan duct assembly as described in claim 1, wherein at least one
2 reinforcing rib is formed at opposite sides of the vertical portion of the
3 locking plate.

1 8. The fan duct assembly as described in claim 1, wherein at least one rivet
2 extends through at least one first aperture defined in the locking plate and
3 through at least one corresponding second aperture defined in the panel,
4 thereby securing the locking plate to the panel.